

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kuei-Wu Huang et al.

Serial No.: Not Known Yet


Group Art Unit: Not Known Yet

Filed: 10/17/2003

Examiner: Not Known Yet

For: **SURFACE TREATED LOW-k DIELECTRIC AS DIFFUSION BARRIER FOR  
COPPER METALLIZATION**

I hereby certify that this correspondence is being deposited  
with the United States Postal Service on the date shown below  
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Stop Patent Application, Commissioner for Patents, P.O. Box  
1450, Alexandria, VA 22313-1450

10/17/03  
Date  
  
Joseph A. Powers

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL LETTER

Dear Sir:

Enclosed herewith is an Information Disclosure Statement pursuant to 37 CFR.  
§ 1.56 in connection with the above-identified application, which statement is being filed:

- ☒ [ X ] Together with the present application.
- ☐ [ ] Before the first Office Action on the merits or three (3) months from the  
filing date of this application, whichever occurs last. [37 CFR § 1.97(b)]
- ☐ [ ] After the first Office Action on the merits, but before a Final Office Action  
under §1.113 or Notice of Allowance under §1.311, whichever occurs first.  
[37 CFR § 1.97(c)]
- ☐ [ ] After a Final Office Action under §1.113 or Notice of Allowance under  
§1.311, but prior to or with payment of the Issue Fee. [37 CFR § 1.97(d)]

Consistent with Applicant's obligations pursuant to 37 CFR §§1.97 and 1.98, the  
following requirements have been met:

- ☒ [x] No separate requirements are needed.

☒ No additional fee is required.

☐ **Fee Under 37 CFR § 1.97(c)**

The fee of \$180.00 for submission of an IDS under § 1.97(c) as set forth in § 1.17(p) accompanies this statement.

☐ **Fee Under 37 CFR § 1.97(d)**

The fee of \$180.00 for submission of an information disclosure statement under § 1.97(d) set forth in § 1.17(p) accompanies this statement.

☐ **Certification Under 37 CFR § 1.97(e)**

- ☐ Each item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; or
- ☐ No item of information contained in this statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in this statement was known to any individual designated in § 1.56(c) more than three months prior to the filing of this statement.

**Provision of Copies of References**

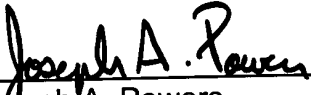
- ☐ A copy of each of the non-U.S. patent references listed on the attached Form PTO-1449 is enclosed herewith and forms a part hereof.
- ☐ Partial Translation is enclosed herewith and form a part hereof.
- ☐ A copy of the European Search Report from a corresponding or related EPO application is enclosed herewith.
- ☐ A copy of the International Search Report from a corresponding or related PCT application is enclosed herewith.

**Identification of Prior Application(s) In Which List d Information Was Already  
Cited And For Which No Copies Are Submitt d Or Need Be Submitted**

- [ ] This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior U.S. Application No(s). The following references were submitted to, and/or cited by, the Office in the prior application(s) and therefore are not required to be provided in this application:
- [x] The Commissioner is hereby authorized to charge any fees associated with this communication or credit any overpayment to Deposit Account No. 04-1679. A duplicate copy of this transmittal is attached.

Respectfully submitted,

DATE: October 17/2003

  
\_\_\_\_\_  
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**Complete if Known**

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

|       |   |    |   |
|-------|---|----|---|
| Sheet | 1 | of | 1 |
|-------|---|----|---|

|                        |               |
|------------------------|---------------|
| Application Number     | Not Known Yet |
| Filing Date            | 10/17/2003    |
| First Named Inventor   | Kuei-Wu Huang |
| Art Unit               | Not Known Yet |
| Examiner Name          | Not Known Yet |
| Attorney Docket Number | N1085-00184   |

## U. S. PATENT DOCUMENTS

[illegible]

**FOREIGN PATENT DOCUMENTS**

[illegible]

**Examiner  
Signature**

|            |  |
|------------|--|
| Date       |  |
| Considered |  |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*